

PROJECT TITLE : New Material Development  
WRITTEN BY : E. Erkohen  
PERIOD COVERED : July 28th - August 26th, 1980

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1. Tipping Paper

1.1. Modified Tipping Paper Benkert Z4/90 and Z4/100

Merit cigarettes received from PM-Munich with modified tipping paper Z4/90 and Z4/100 (modifications : holes are smaller and more numerous) were sent to taste evaluation (Ref. 1). Cigarettes with modified Z4/90 tipping paper were found "not clean enough and slightly strange", whereas cigarettes with modified Z4/100 "gave a good tobacco taste flavour but they were milder" (Ref. 2).

1.2. Malaucène Micro-Laser Perforated Tipping Paper

Five bobbins were received from Malaucène with a porosity of 58 l/h/4 cm. MLK-CH cigarettes were made with this tipping paper and compared to MLK-CH standard cigarettes (tipping paper Benkert Z3/60). Smoke analyses results have not been received yet.

2. Filter Paper

2.1. Ecusta Ultraporous Plug Wraps (Ultrapor<sup>M</sup>)

Six bobbins of Ultraporous plug wraps were received. The physical test results are given in the table below.

Ecusta Quality No	width mm	Porosity in "K"	Porosity Coresta
28018	27	46.5	1700
28035	27	111.4	4150
28040	27	126.5	unmesurable
28060	27	187.5	"
28070	27	276.3	"
28100	27	308	"

## 2.2. Schöller and Hoesch

### 2.2.1. Porous plug wrap coated with hot melt

The physical tests showed that this paper has a porosity of 340 K.

### 2.2.2. Porous plug wraps "Fu-Pov 100 mgl, Fu-Pov 150 mgl and Fu-Pov 250 mgl"

Schöller and Hoesch developed a new high-porous plug wrap with a substance of 20 g/m<sup>2</sup> which has properties comparable to their usual grades with a substance of 30 g/m<sup>2</sup>. From the technical point of view there is an advantage of less down-time when changing bobbins : the 20 g/m<sup>2</sup> paper Fu-Pov 100 will be approximately 5200m long compared to only 2800 m for the 30 g/m<sup>2</sup> quality, for a specified outside diameter of the bobbin of 580 mm. These bobbins have been sent to QA for physical testing.

## 3. Filter Material

Eastman submitted a tow 33/44000 Y. The test on the "capability" of this tow was not conclusive. The "capability curve" obtained was approximately vertical. The test has to be repeated.

### References :

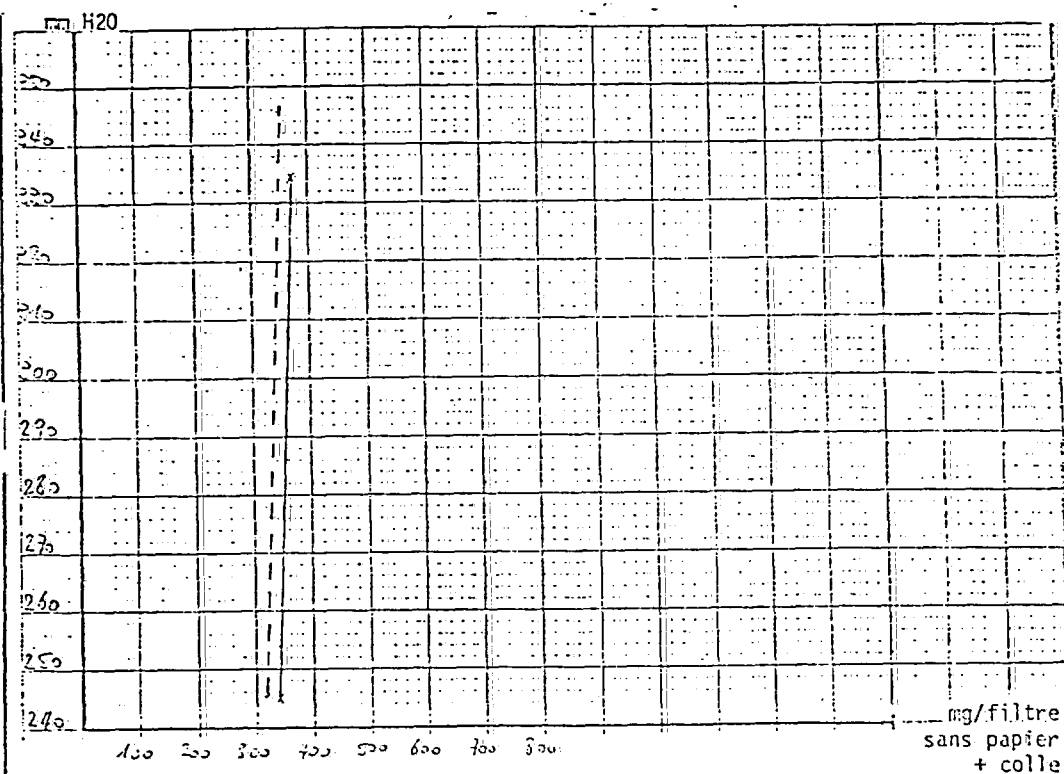
1. Monthly report, New Material Development, July 1980; E. Erkohen
2. Taste evaluation of July 16th, 1980

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ELE/sde

COURSE DE CAPACITE FILTRE	DATE	EDIT.	
	TON : 3,4 / 44 000 Y		
	FOURNISSEUR : Fastuon		
Pays : Fabrique :			
Machine : Type = KDF 2 No = Vit. = 3500			
Essai effectué sur filtre : HLFPS			
Ø mm : 7,86			
long. mm : 108			
RTD mm H <sub>2</sub> O : 375			
Valable pour filtres :			

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Remarques :

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